

Comparision of Protein Sequences

hbcl-w	MATPASAPDT RALVADFVGY KLRQKGYVCG AGPGE GPAAD PLHQAMRAAG	50
mbcl-w	.....(T).....A.....	
hbcl-y	.....A.....E.....	
rbcl-y	.....T.....A.....	
hbcl-w	DEFETRFRRT FSDLAAQLHV TPGSAQQRFT QVSDELQGG PNWGR LV AFF	100
mbcl-w	.....
hbcl-y	.....
rbcl-y	.....
hbcl-w	VFGAACALCAES VNKE MEPLVG QVQE WMVAYL ETRLADWIHS SGGWAEFTAL	150
mbcl-w	.....
hbcl-y	.....(D).....A.....	
rbcl-y	.....(E).....A.....	
hbcl-w	YGDGA LEEAR RLREG NWASV RTVL TG AVAL GALVT VG AFF ASK	193
mbcl-w	.....
hbcl-y	.....
rbcl-y	.....

Comparison of Nucleotide Sequences

Human bcl-w (SEQ ID NO: 6)

Human bcl-y (SEQ ID NO: 2 of the '201 Patent)

Rat bcl-y (SEQ ID NO: 1 of the '201 Patent)

hbcl-w	atg	gcg	acc	cca	gcc	tcg	gcc	cca	gac	aca	cgg	gct	ctg	gtg	gca	gac	48
hbcl-y															a		
rbcl-y															a	t	
hbcl-w	ttt	gta	ggt	tat	aag	ctg	agg	cag	aag	ggt	tat	gtc	tgt	gga	gct	ggc	96
hbcl-y																	
rbcl-y					c				a								
hbcl-w	ccc	ggg	gag	ggc	cca	gca	gct	gac	ccg	ctg	cac	caa	gcc	atg	cgg	gca	144
hbcl-y														a			
rbcl-y	t		a						c								
hbcl-w	gct	gga	gat	gag	ttc	gag	acc	cgc	ttc	cg	cg	acc	ttc	tct	gat	ctg	192
hbcl-y															c		
rbcl-y			c		t												
hbcl-w	gcg	gct	cag	ctg	cat	gtg	acc	cca	ggc	tca	gcc	cag	caa	cgc	ttc	acc	240
hbcl-y												a					
rbcl-y	c		a	c													
hbcl-w	cag	gtc	tcc	gac	gaa	ctt	ttt	caa	ggg	ggc	ccc	aac	tgg	ggc	cgc	ctt	288
hbcl-y					t				c						t		
rbcl-y		t				c											
hbcl-w	gta	gcc	ttc	ttt	gtc	ttt	ggg	gct	gca	ctg	tgt	gct	gag	agt	gtc	aac	336
hbcl-y												c					
rbcl-y	g	a															
hbcl-w	aag	gag	atg	gaa	cca	ctg	gtg	gga	caa	gtg	cag	gag	tgg	atg	gtg	gcc	384
hbcl-y														t		a	
rbcl-y	a	a		g	t												
hbcl-w	tac	ctg	gag	acg	cg	ctg	gct	gac	tgg	atc	cac	agc	agt	ggg	ggc	tgg	432
hbcl-y																	
rbcl-y			a	c	t												
hbcl-w	gcg	gag	ttc	aca	gct	cta	tac	ggg	gac	ggg	ggc	ctg	gag	gag	g	gg	480
hbcl-y														a			
rbcl-y																	
hbcl-w	cgt	ctg	cg	gag	ggg	aac	tgg	gca	tca	gtg	agg	aca	gtg	ctg	acg	ggg	528
hbcl-y																	
rbcl-y																	
hbcl-w	gcc	gtg	gca	ctg	ggg	gcc	ctg	gta	act	gta	ggg	ggc	ttt	ttt	gct	agc	576
hbcl-y																	
rbcl-y	t																583
hbcl-w	aag	tgaa															
hbcl-y																	
rbcl-y																	

Comparison of Nucleotide Sequences

Murine bcl-w (SEQ ID NO: 6)

Human bcl-y (SEQ ID NO: 2 of the '201 Patent)

Rat bcl-y (SEQ ID NO: 1 of the '201 Patent)

mbcl-w	atg	gcg	acc	cca	gcc	tca	acc	cca	gac	aca	cgg	gct	cta	gtg	gct	gac	48
hbcl-y															g	aa	
rbcl-y																	
mbcl-w	ttt	gta	ggc	tat	agg	ctg	agg	cag	aag	ggt	tat	gtc	tgt	gga	gct	ggc	96
hbcl-y				t		a											
rbcl-y				a		a											
mbcl-w	cct	ggg	gaa	ggc	cca	gcc	gcc	gac	ccg	ctg	cac	caa	gcc	atg	cgg	gct	144
hbcl-y	c		g				a	t								a	
rbcl-y					a											a	
mbcl-w	gct	gga	gac	gag	ttt	gag	acc	cgt	ttc	cgc	cgc	acc	ttc	tct	gac	ctg	192
hbcl-y			t		c			c.		g						t	
rbcl-y					c				c.	g						g	
mbcl-w	gcc	gct	cag	cta	cac	gtg	acc	cca	ggc	tca	gcc	cag	caa	cgc	ttc	acc	240
hbcl-y		g			g	t										a	
rbcl-y																	
mbcl-w	cag	gtt	tcc	gac	gaa	ctt	ttc	caa	ggg	ggc	cct	aac	tgg	ggc	cgt	ctt	288
hbcl-y		c		t				t				c				c	
rbcl-y												c					
mbcl-w	gtg	gca	ttc	ttt	gtc	ttt	ggg	gct	gcc	ctg	tgt	gct	gag	agt	gtc	aac	336
hbcl-y		a		c								a					
rbcl-y																	
mbcl-w	aaa	gaa	atg	gag	cct	ttg	gtg	gga	caa	gtg	cag	gat	tgg	atg	gtg	gcc	384
hbcl-y	g	g			a	a	c							g			
rbcl-y					a										a		
mbcl-w	tac	ctg	gag	aca	cgt	ctg	gct	gac	tgg	atc	cac	agc	agt	ggc	ggc	tgg	432
hbcl-y			g		g									g			
rbcl-y			c	t										g			
mbcl-w	gcg	gag	ttc	aca	gct	cta	tac	ggg	gac	ggg	gcc	ctg	gag	gag	gca	cgg	480
hbcl-y															g		
rbcl-y																	
mbcl-w	cgt	ctg	cg	gag	ggg	aac	tgg	gca	tca	gtg	agg	aca	gtg	ctg	acg	ggg	528
hbcl-y																	
rbcl-y																	
mbcl-w	gcc	gtg	gca	ctg	ggg	gcc	ctg	gta	act	gta	ggg	gcc	ttt	ttt	gct	agc	576
hbcl-y																	
rbcl-y				t													
mbcl-w	aag	tga															582
hbcl-y																	
rbcl-y																	